DS-712

3-3 Palm-size Serial-to-Ethernet Device Server

DS-712 NEW

PPDS-712-MTCP Available soon

Serial-to-Ethernet Device Server with 1 RS-232 port



Features >>>>

- Incorporate Serial Devices in an Ethernet network
- Virtual COM for 32-bit and 64-bit Windows XP/2003/Vista/7
- Watchdog Timer suitable for use in harsh environments
- 10/100 Base-TX, RJ-45 Port
 - (Auto-negotiating, auto MDI/MDI-X, LED indicator)
- Built-in High Performance MiniOS7 from ICP DAS
- PPDS-712-MTCP supports Modbus/TCP and Modbus/RTU
- PPDS-712-MTCP supports PoE (IEEE 802.3af, Class 1)
- Made from fire-retardant materials (UL94-V0 Level)

- "Virtual COM" extends PC COM ports
- High Performance Device Server
- Power Reverse Polarity Protection

PPDS-712-MTCP

- RoHS Compliant & no Halogen
- Serial Port +/-4 kV ESD Protection Circuit
- Low power consumption
- Palm-Size with DIN-Rail Mounting
- Male DB-9 Connector

Introduction

The DS-700 is a series of Serial-to-Ethernet Device Servers that are designed for linking RS-232/422/485 devices to an Ethernet network. By using the VxComm Driver/Utility, the built-in COM port of the DS-700 series can be virtualized to a standard PC COM port in Windows. By virtue of its protocol independence, a small size and flexibility, the DS-700 series meets the demands of virtually any network-enabled application.

The DS-712 is equipped with a male DB-9 connector and supports a 5-wire RS-232 port, while the DS-715 is equipped with a removable terminal block connector and supports a 4-wire RS-422 port or a 2-wire RS-485 port with 2000 $V_{\rm rms}$ isolation.

The DS-700 is a non-programmable device server, while the PPDS-700-MTCP is a programmable product. The PPDS-700-MTCP series features true IEEE 802.3af-compliant (classification, Class 1) Power over Ethernet (PoE) using a standard category 5 Ethernet cable to receive power from a PoE switch like the NS-205PSE. The PPDS-700-MTCP also works as a Modbus/TCP to Modbus/RTU gateway that supports most SCADA/HMI communications based on the Modbus/TCP protocol.



- Applications

Factory, Building and Home Automation

System Specifications

Models	DS-712	PPDS-712-MTCP		
СРИ				
CPU	80186, 80 MHz or compatible			
SRAM	512 KB			
Flash Memory	Flash ROM: 512 KB			
EEPROM	16 KB; Data retention: 40 years			
Built-in Watchdog Timer	Yes			
Communication Interface				
Non-isolated COM1	RS-232 (TxD, RxD, RT	S, CTS, GND)		
Ethernet	10/100 Base-TX, RJ-45 port (Auto- negotiating, auto MDI/MDI-X, LED indicator)			
PoE	-	IEEE 802.3af		
COM Port Formats				
Data Bit	7, 8			
Parity	None, Even, Odd, Mark, Space			
Stop Bit	1, 2			
Baud Rate	115200 bps max.			
LED Indicators				
L1	Run (Red)			
L2	Link/Act (Red)			
L3	10/100M (Orange)			
PoE	-	Green		
Power				
Protection	Power Reverse Polarity Protection			
Required Supply Voltage	+12 V _{DC} ~ +48 V _{DC} (non-regulated)	PoE or +12 V _{DC} ~ +48 V _{DC} (non-regulated)		
Power Consumption	2.0 W	2.2 W		
Mechanical				
Flammability	Fire-Retardant Materials (UL94-V0 Level)			
Dimensions (W x H x D)	72 mm x 118 mm x 35 mm			
Installation	DIN-Rail or Wall mounting			
Environment				
Operating Temperature	-25 °C ~ +75 °C			
Storage Temperature	-40 °C ∼ +80 °C			
Humidity	5 ~ 90% RH, non-condensing			

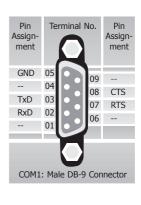


Pin Assignments

Terminal No.	Pin Assignment
E1	
01	N/A
02	N/A
03	N/A
04	N/A
05	INIT*
06	N/A
07	N/A
08	(R)+Vs
09	(B)GND

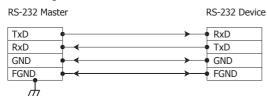




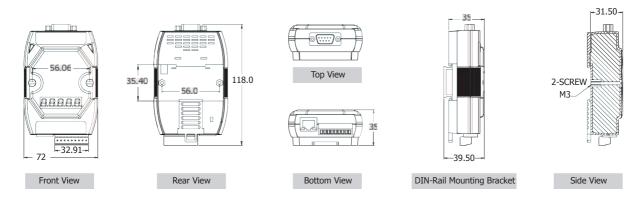


Wiring

3-wire RS-232 Wiring



Dimensions (Unit: mm)



- Ordering Information

DS-712 CR	Device Server with 1 RS-232 port (RoHS)
PPDS-712-MTCP CR	Programmable Device Server with PoE. Modbus/TCP and 1 RS-232 port (RoHS)

Accessories

GPSU06U-6	24 Voc/0.25 A, 6 W Power Supply
MDR-20-24	24 Vbc/1 A, 24 W Power Supply with DIN-Rail Mounting
DIN-KA52F-48	48 Voc/0.52 A, 25 W Power Supply with DIN-Rail Mounting
CA-0915	9-Pin Male-Female D-Sub Cable, 1.5 m Cable
NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)
NS-205PSE CR	Unmanaged Ethernet Switch with 4 PoE Ports and 1 RJ-45 Uplink (RoHS)
DN-09-2F	I/O Connector Block with DIN-Rail Mounting and Two 9-Pin Male Headers. Includes CA-0910F x 2 (9-Pin Female-Female D-Sub Cable 1.0 m)